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PROGRESS REPORT - FOURTH QUARTER 1976

APPLICATION OF REMOTE SENSING TECHNIQUES FOR THE STUDY AND EVALUATION OF NATURAL RESOURCES IN PERU

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1.- INTRODUCTION

The period covered during last quarter of 1976, the Project "PERCEP" entered its full operational stage. Formal agreements were signed, between Peru and Canada Governments. PERCEP is intended to support studies related to the use of LANDSAT in conjunction with GOES, NIMBUS, TIROS and other U.S. Remote Sensing Satellites, and to develop the required ground facilities in Peru, as well.

Efforts were also executed on the immediate use of LANDSAT data and computing facilities ready available at Ancón Observatory. In cooperation with ONERN and UNA, three experiments were carried out in selected areas of Peru, namely Northern Amazon Jungle, Ica City and Nazca Plains.

2.- SUMMARY OF PROJECT PERCEP

Technical proposals were presented describing the work to be carry out at the CCRS, as part of project PERCEP, main objectives are:

- To extend the present work that is being developed cooperatively with ONERN at the Ancon Observatory of IGP, as technological base for the full development of Remote Sensing in Perú.
- To conduct on Engineering study of a National Remote Sensing Center for Perú, based on IGP personnel experience in Perú and Canada

-To provide technical support to PERCEP, in the area of Digital Processing Selection, acquisition and installation of Remote Sensing equipment.

3.- USE OF LANDSAT DATA

During the reported period the Maximum Likelihood Program recently developed has been used in the following studies.

3.1 - "Northern Amazon Jungle"

ONERN - IGP joint study of the flooding areas of the Bajo Marañon (Lower Marañon River, attached is a copy computer print out).

Classification has been found consistent with previous studies made in the same area by ONERN

3.2 - "Ica City"

Was identified for study in connection with its surrounding desert areas. Similarity on the scenery voids more clear identification of the required parameters.

3.3 - "Nazca Lines"

Ancient Nazca people had developed an advanced techniques as to produce large geometrical patterns on ground, those are readily identified from the plane flight altitudes. From the space, LANDSAT data in general was found not particularly suitable to identified modern cultural features of Perú; however, "Nazca Lines" the longer ones about 10 miles long were easily classified using ISODATA programing that use simple clustering technics.

4. - LANDSAT DATA CATALOG

Computerized LANDSAT Catalog has been completed during the reporting period. Programming allows multi-entering selection of images and computer Compatible Tapes.

Entries are:

General List

Zone

Cloud Coverage

Date

Combined options are also possible for the selection operation.

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